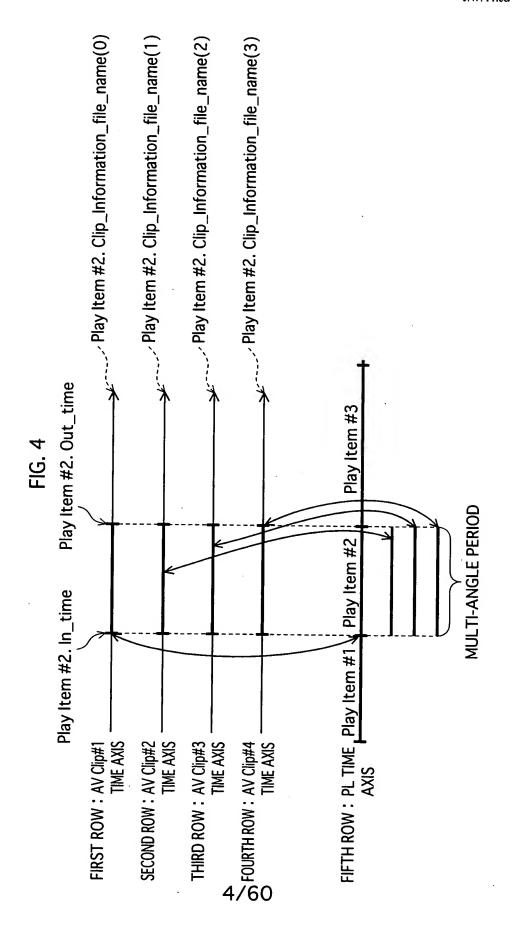
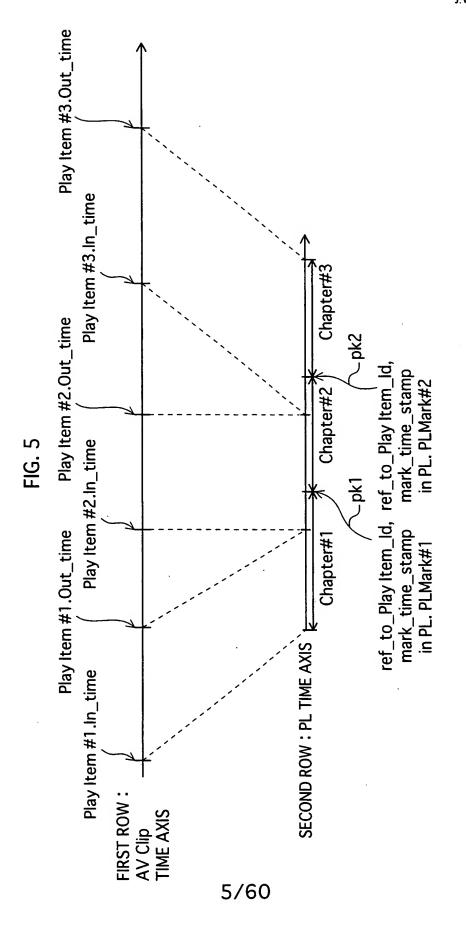


FIG. 3





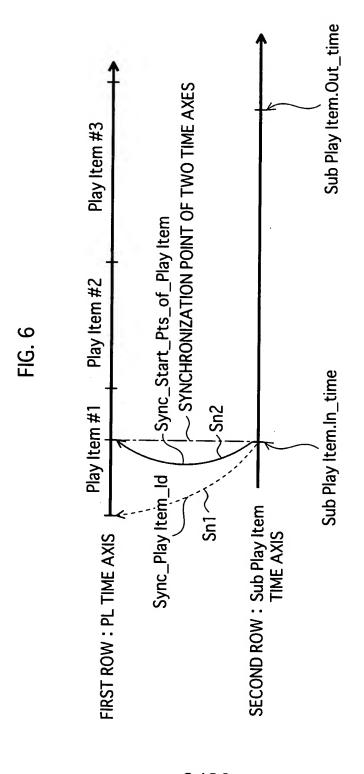


FIG. 7A

## ZZZZZ.BDMV

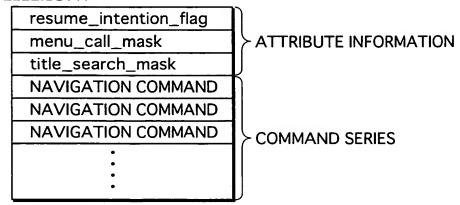
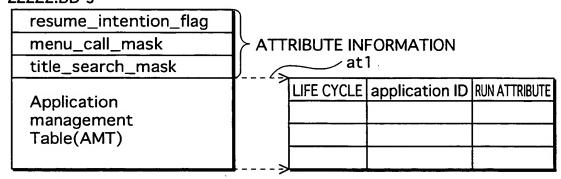
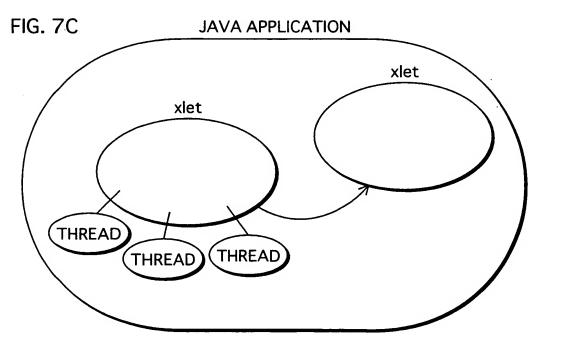
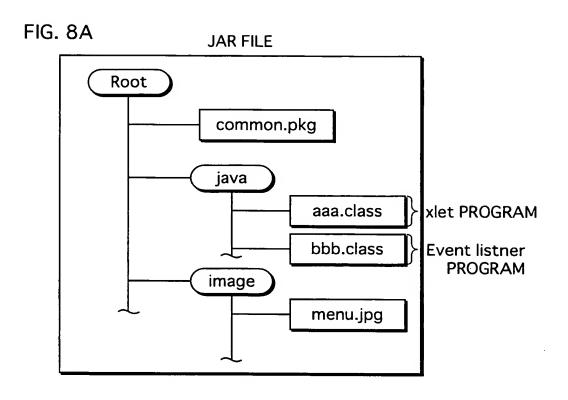
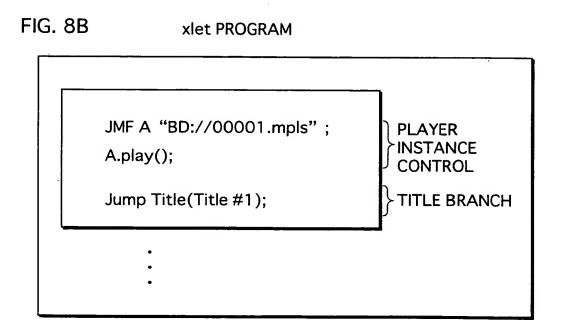


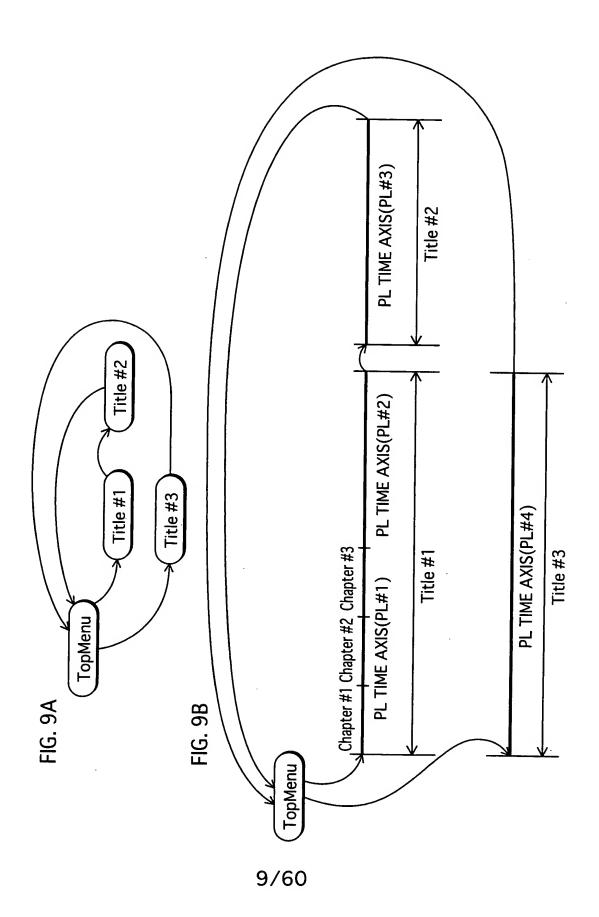
FIG. 7B ZZZZZ.BD-J

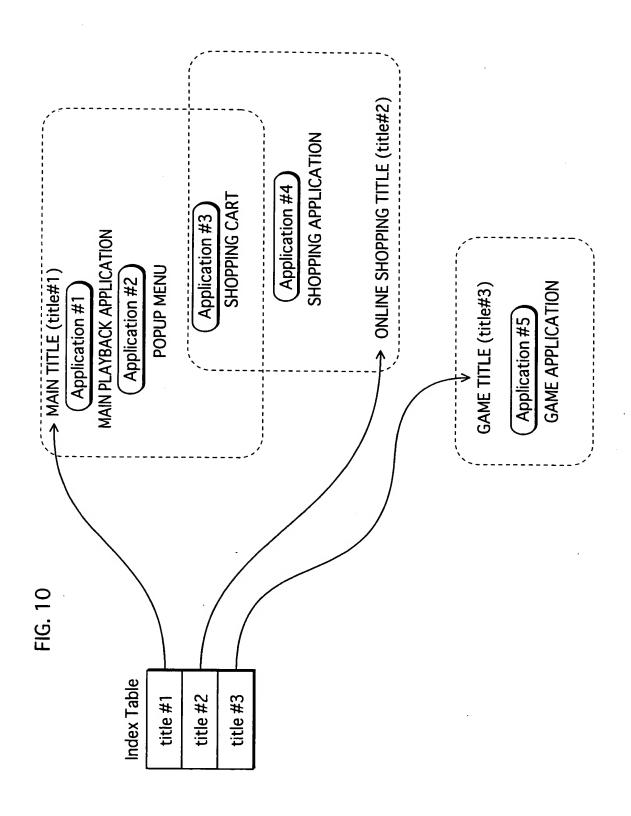


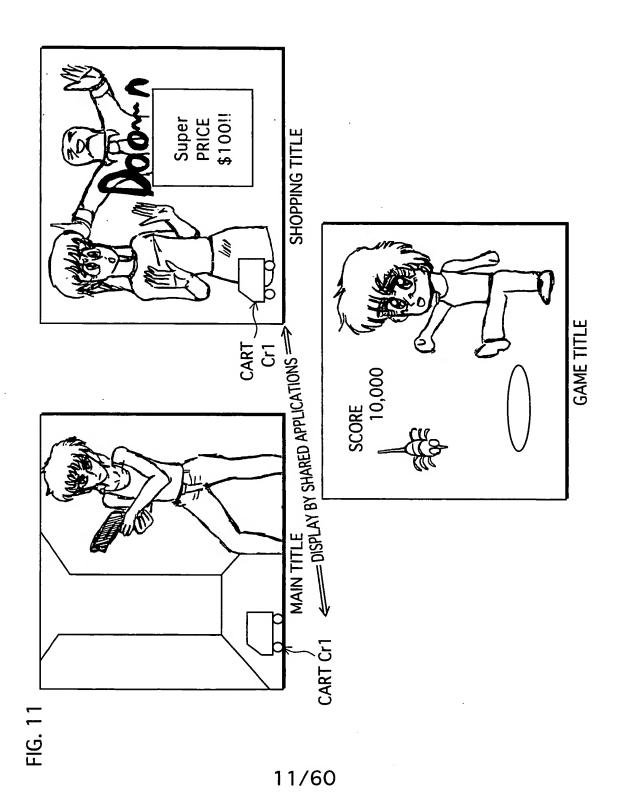


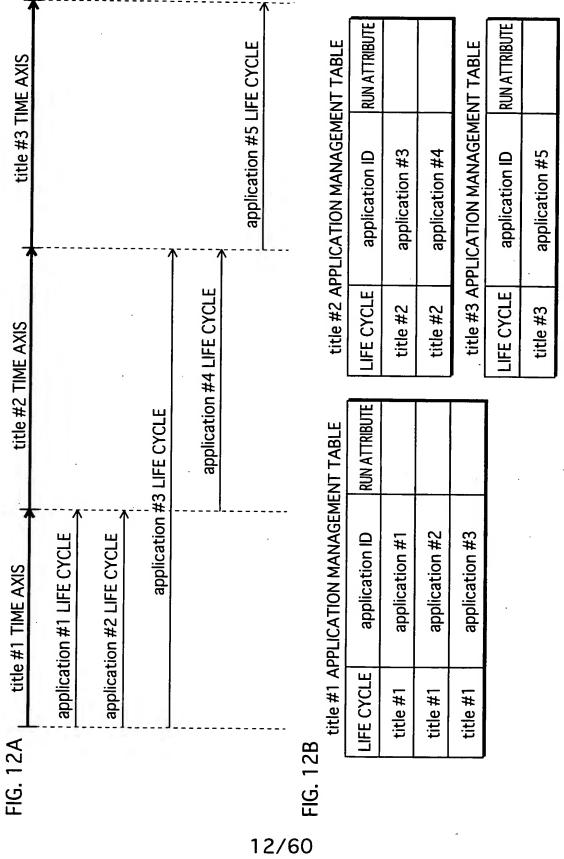












Run

title #2 TIME AXIS **RUN ATTRIBUTE RUN ATTRIBUTE Persistent Persistent** AutoRun AutoRun [erminate] **Terminate** title #1 APPLICATION MANAGEMENT TABLE title #2 APPLICATION MANAGEMENT TABLE application #2 application #3 application ID application ID application #1 application #3 application #1 LIFE CYCLE application #2 LIFE CYCLE application #3 LIFE CYCLE title #1 TIME AXIS LIFE CYCLE LIFE CYCLE title #2 title#1 title#1 title#1 Run Call FIG. 13A FIG. 13B Run

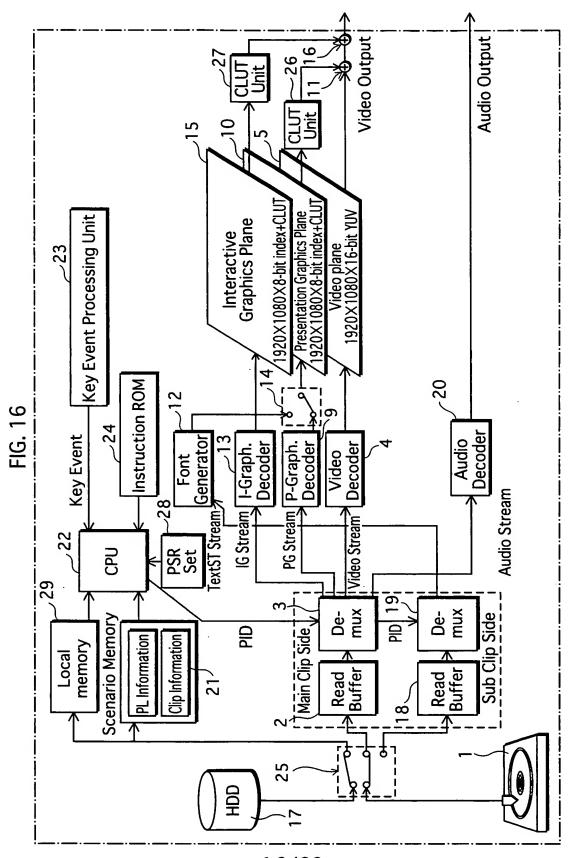
Terminate **RUN ATTRIBUTE RUN ATTRIBUTE Persistent Persistent** Suspend title #2 APPLICATION MANAGEMENT TABLE title #3 APPLICATION MANAGEMENT TABLE title#3 TIME AXIS application #2 application ID application #2 application ID application #1 Terminate ≫(Resume) RESOURCES ARE
OCCUPIED, BUT CPU
POWER IS NOT ALLOCATED LIFE CYCLE LIFE CYCLE title #2 title #2 title #3 title #2 TIME AXIS **RUN ATTRIBUTE Suspend** AutoRun AutoRun title #1 APPLICATION MANAGEMENT TABLE title #1 TIME AXIS application #2 application ID application #1 Run Run LIFE CYCLE application #2 ( application #1 LIFE CYCLE title#1 title #1 FIG. 14A FIG. 14B

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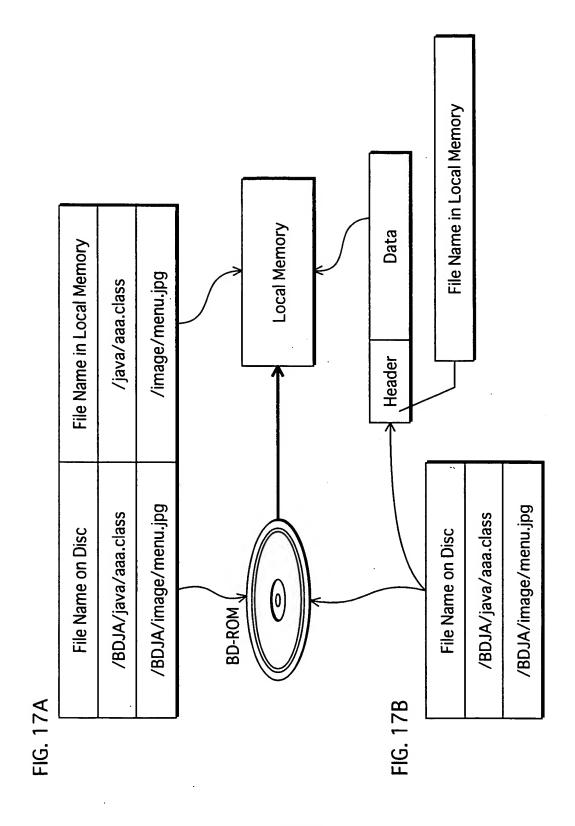
FIG. 15

CHANGE IN APPLICATION STATUS ACCORDING TO RUN ATTRIBUTES

			Run Attribute	
		Persistent	AutoRun	Suspend
<u></u>	Not Run	Maintain status without performing operation	Run Application	Maintain status without performing operation
Application Status in Previous Title	Running	Maintain status without performing operation performing operation	Maintain status without performing operation	Suspend
	Suspend	Resume	Resume	Maintain status without performing operation



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FIG. 18

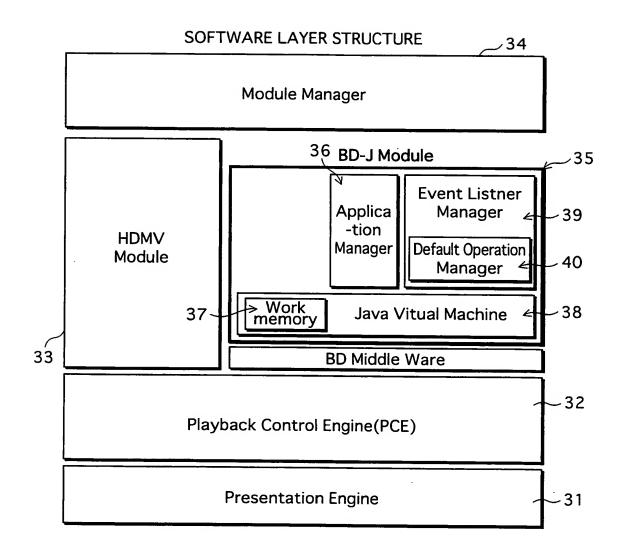
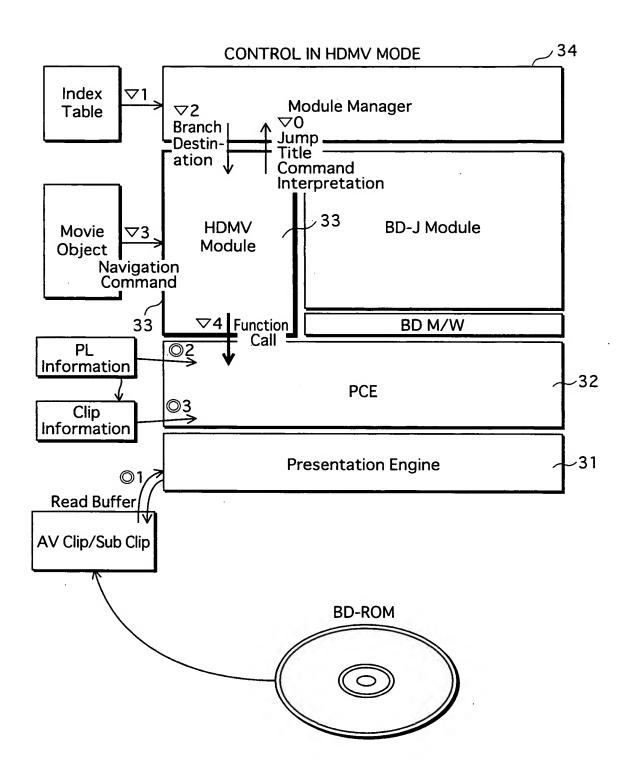
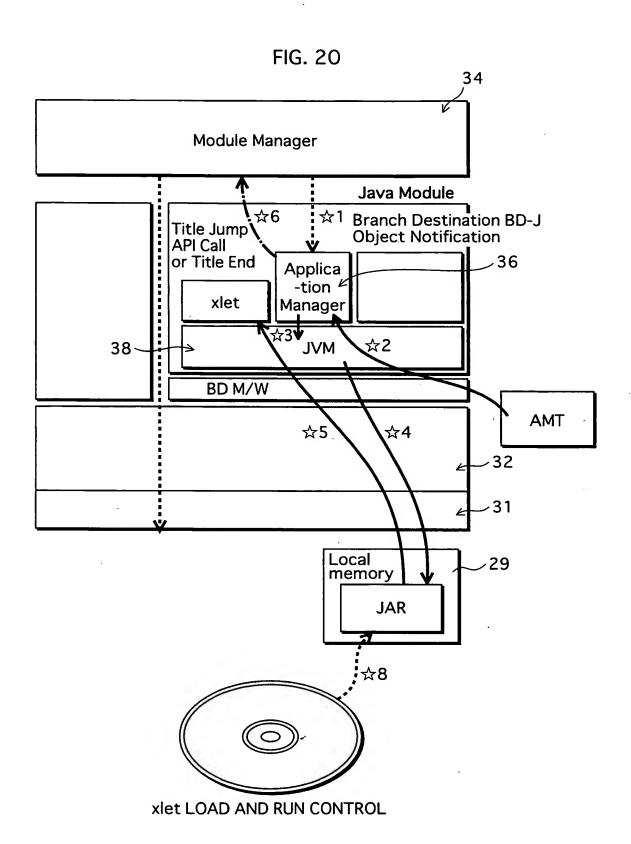
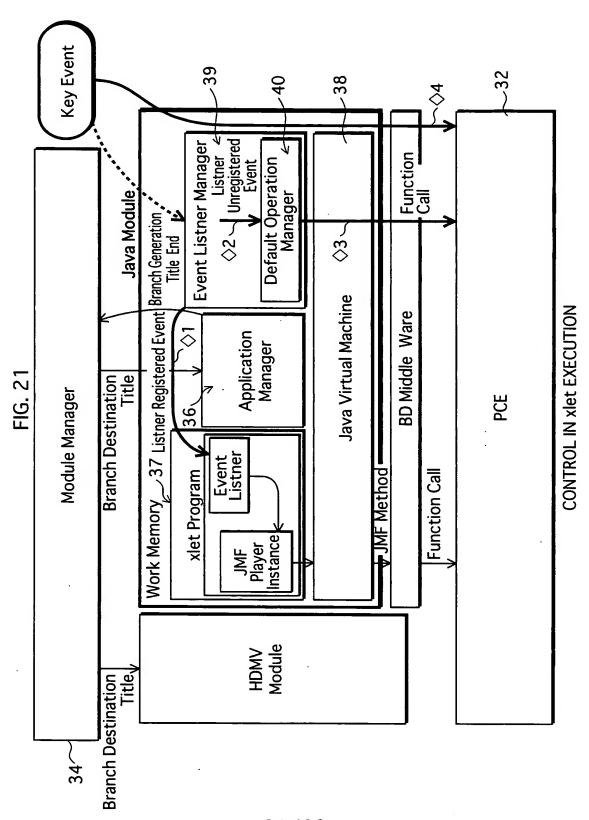


FIG. 19







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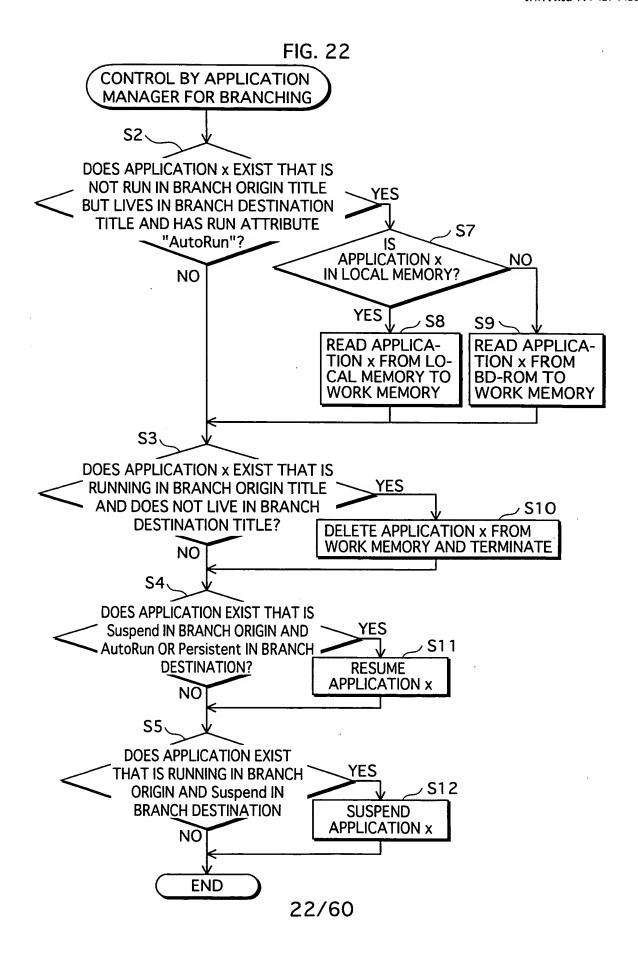
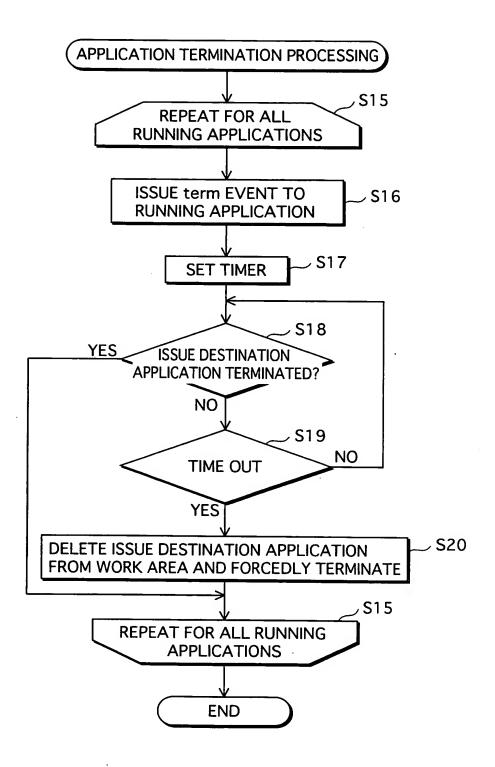
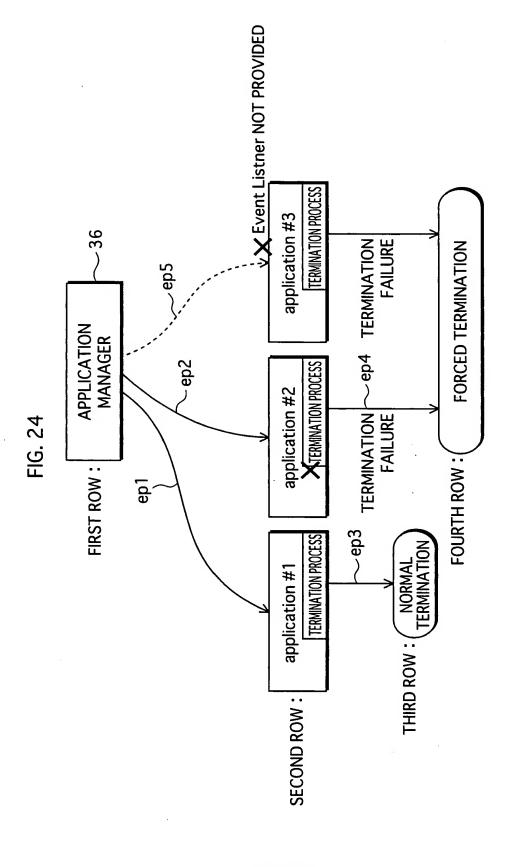
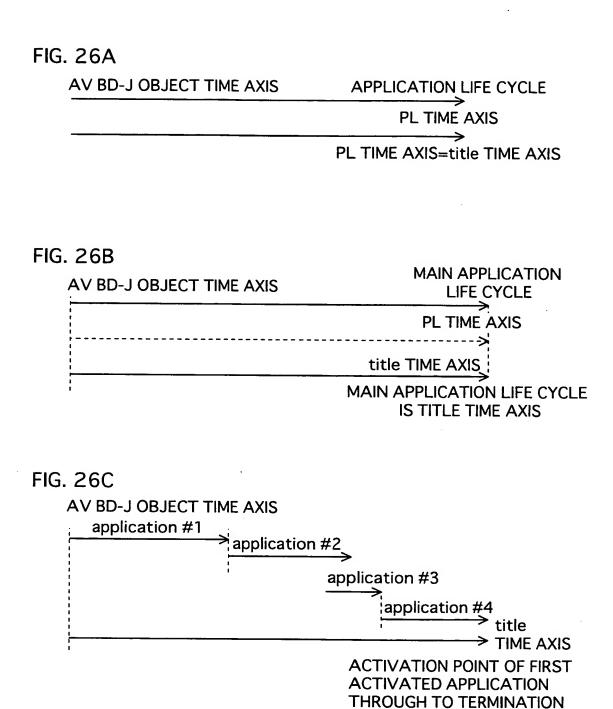


FIG. 23





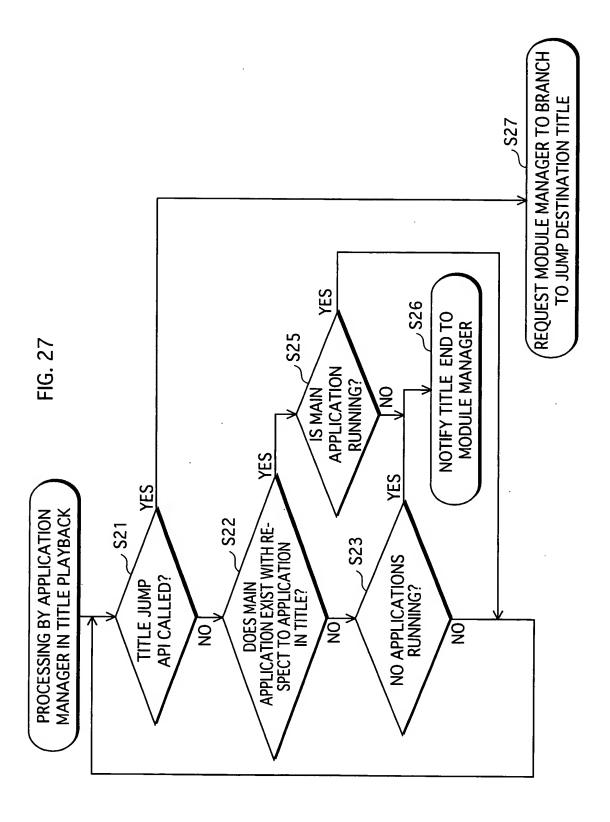
**Terminate** Terminate chapter #4; chapter #5; chapter #6; RUN ATTRIBUTE RUN PRIORITY LEVEL 255 128 128 application #3 AutoRun AutoRun AutoRun APPLICATION MANAGEMENT TABLE [erminate] title #1 TIME AXIS Run application #2 application #3 application ID application #1 chapter #3 application #2 application #1 chapter #2 title #1: chapter #4-#6 title #1: chapter #2-#3 Run LIFE CYCLE chapter #1 title #1 Run FIG. 25A FIG. 25B

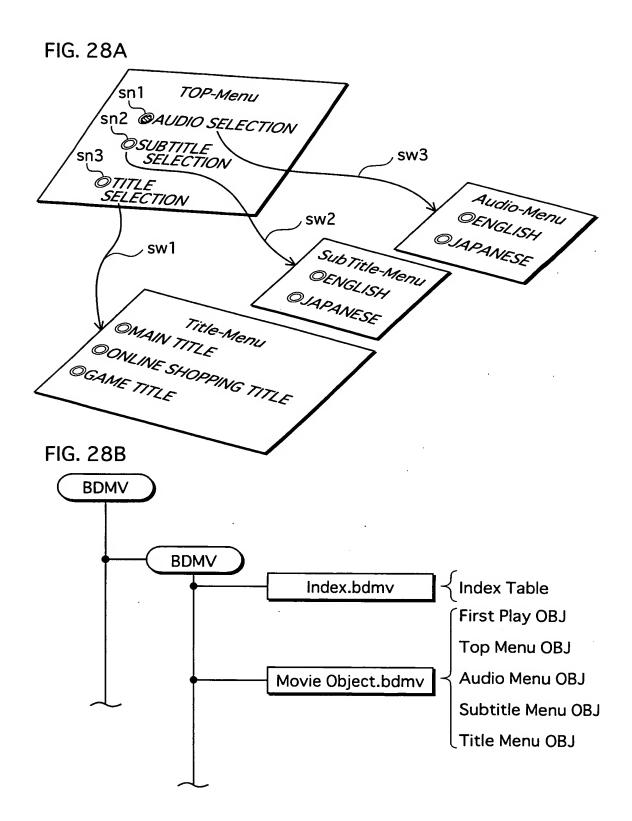


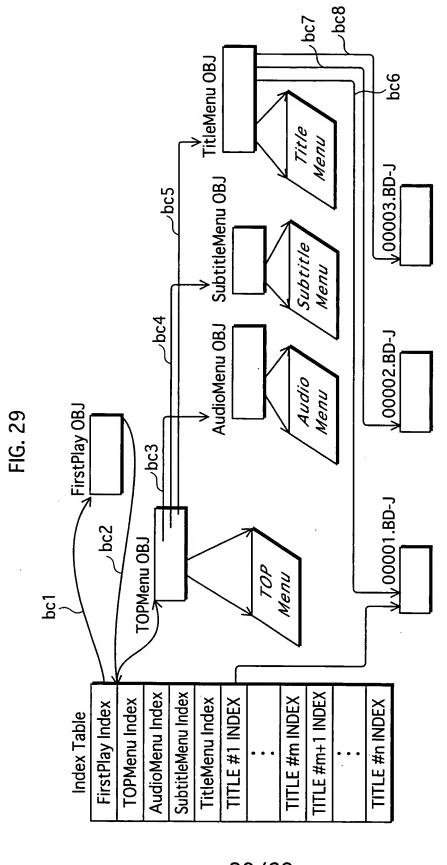
POINT OF LAST TERMINATED

**APPLICATION** 

= TITLE TIME AXIS







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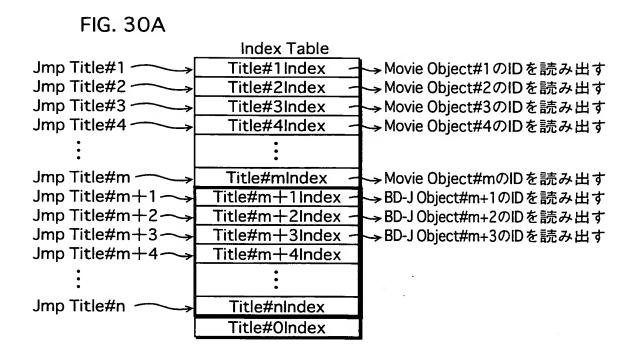
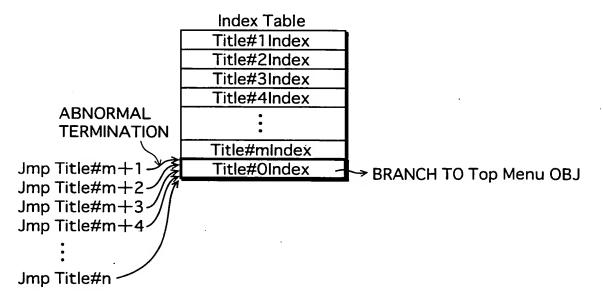
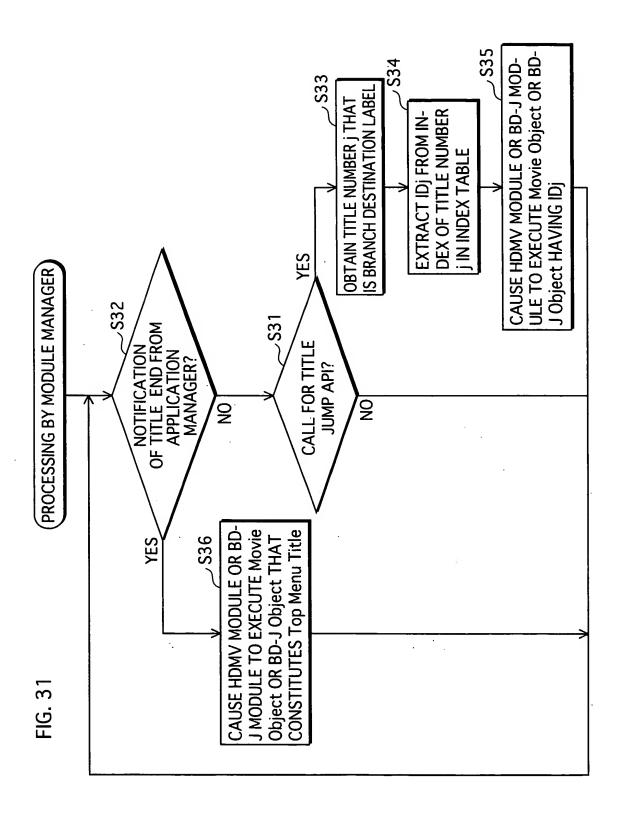
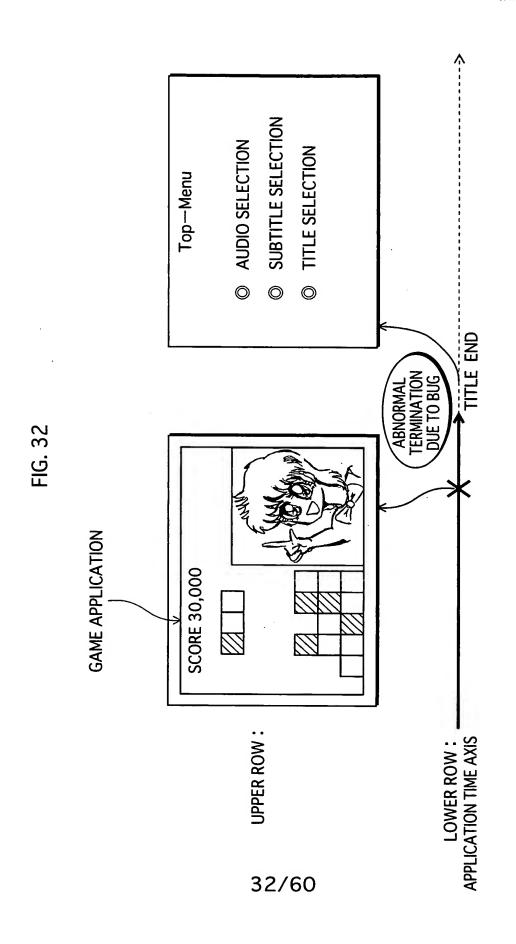
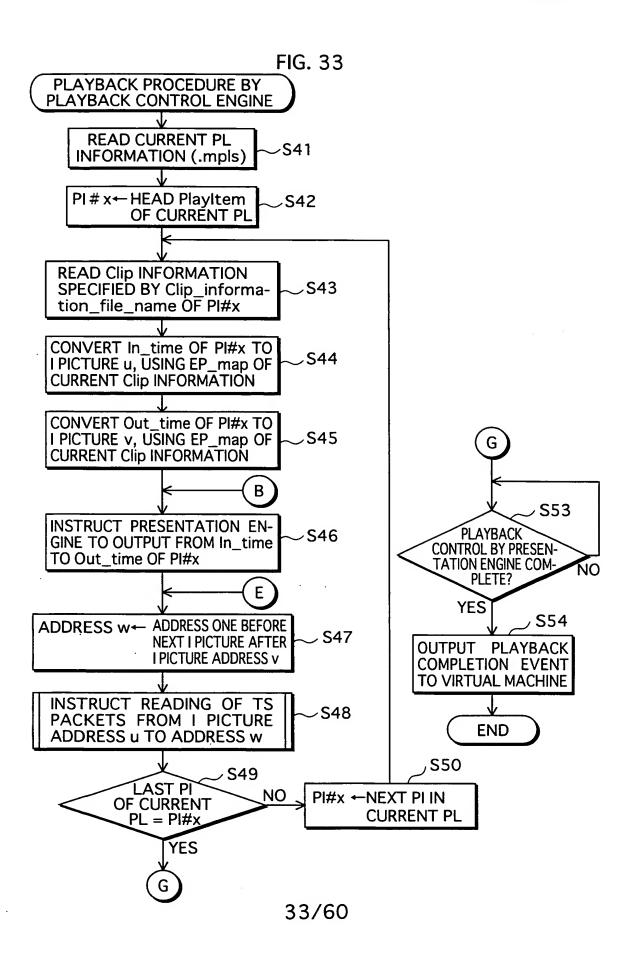


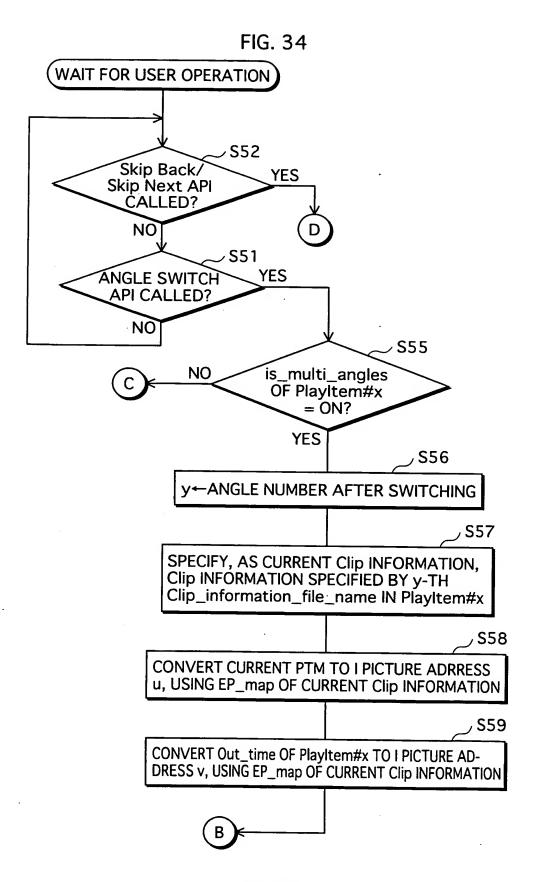
FIG. 30B EXCEPTIONAL PROCESSING IN BD-J OBJECT EXECUTION



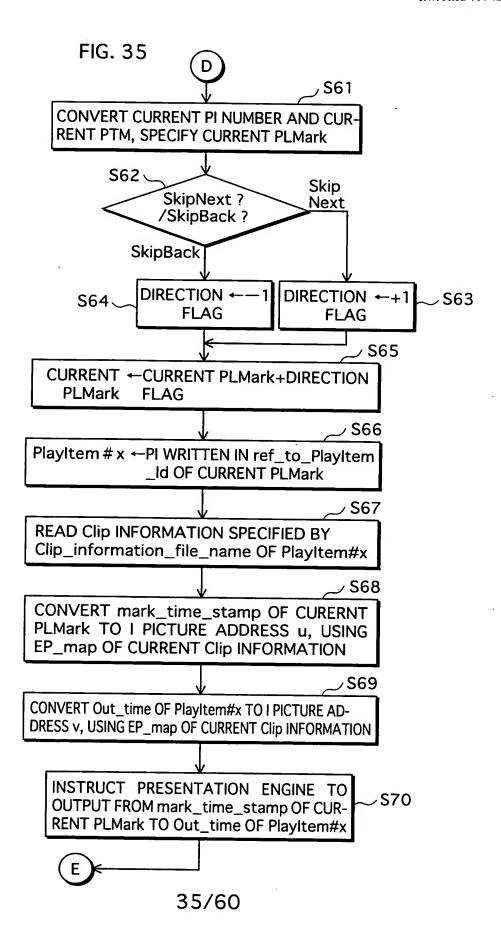








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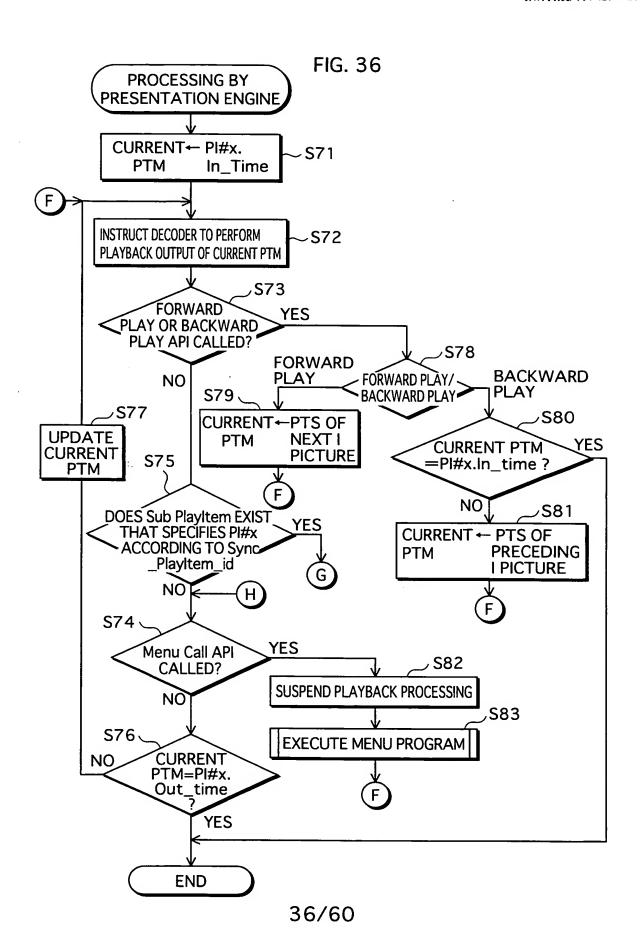
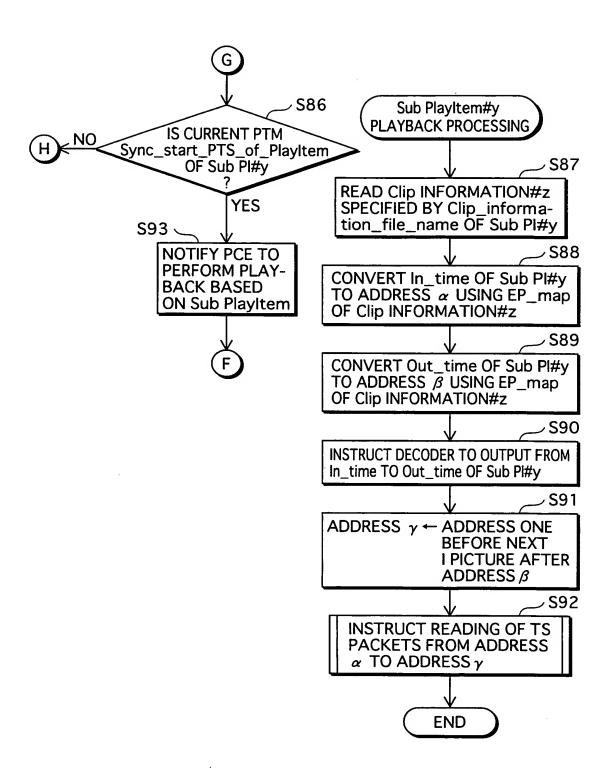
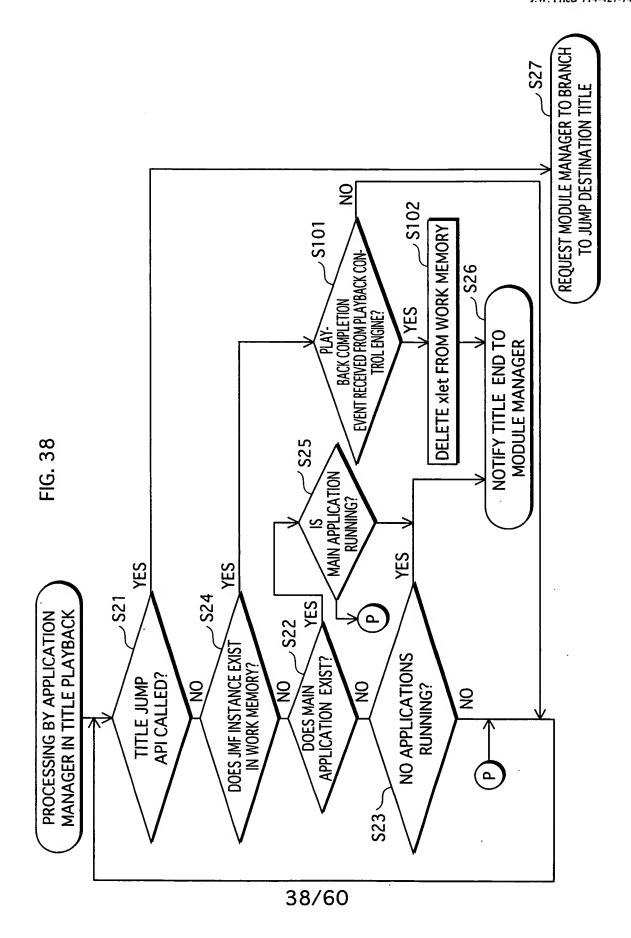


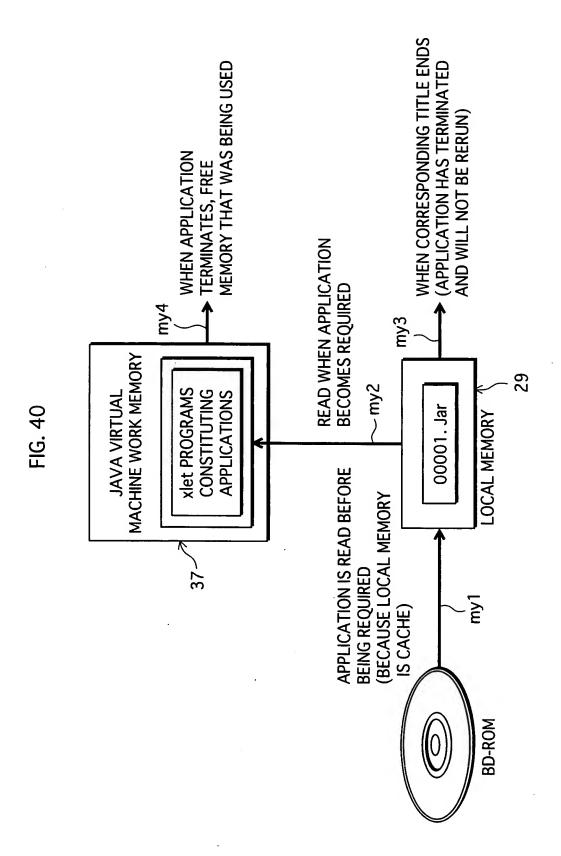
FIG. 37





READ ATTRIBUTE READ PRIORITY LEVEL LIFE CYCLE application ID RUN ATTRIBUTE application ID LIFE CYCLE resume\_intention\_flag Application Management Table(AMT) Management Table(DMT) title\_search\_mask menu\_Call\_Mask ZZZZZ. BD-J Data

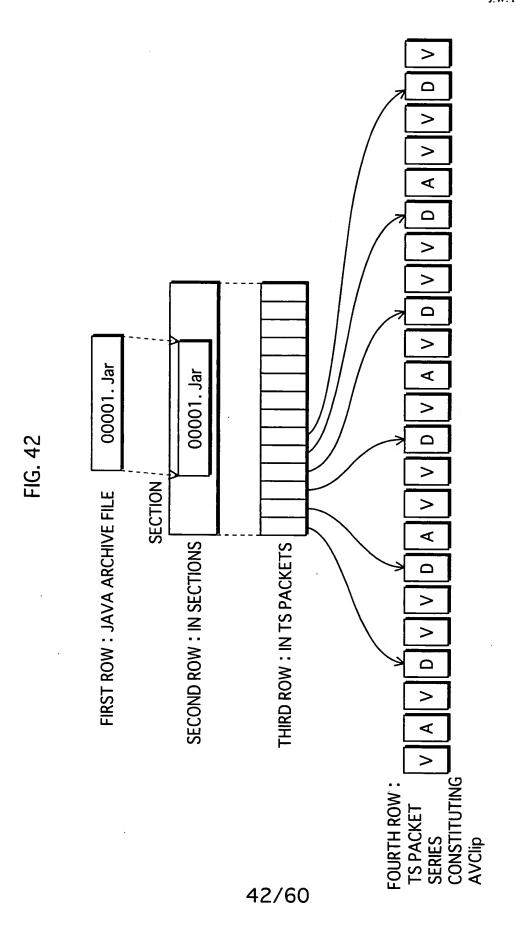
FIG. 39

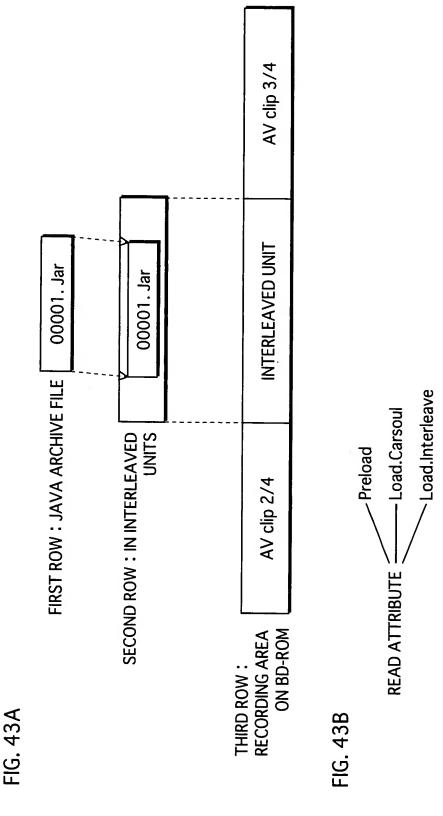


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READ ATTRIBUTE |READ PRIORITY LEVEL title #3 TIME AXIS title #2 DATA MANAGEMENT TABLE application ID Free application #2 Free application #1 title #2 TIME AXIS LIFE CYCLE title #1 title #2 application #3 READ ATTRIBUTE READ PRIORITY LEVEL Free Read title #1 DATA MANAGEMENT TABLE title #1 TIME AXIS application ID application #2 application #1 application #2 application #1 LIFE CYCLE FIG. 41B title #1 title #1 Read Read 41/60

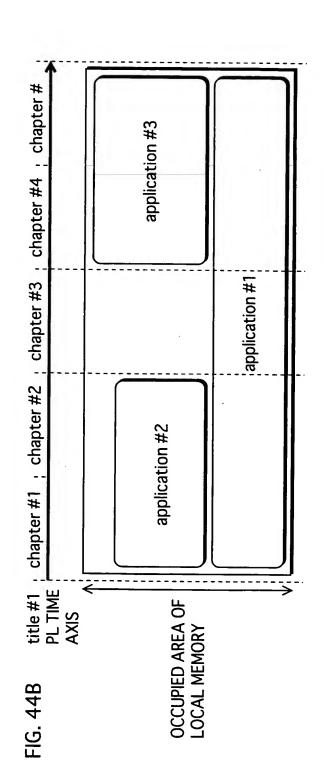




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FIG. 44A title #1 DATA MANAGEMENT TABLE

LIFE CYCLE	application ID	READ ATTRIBUTE	READ ATTRIBUTE READ PRIORITY LEVEL
title #1	application #1	Preload	mandatory
title #1:chapter #1-#2	application #2	Load	optional
title #1:chapter #4-#5	application #3	Load	optional



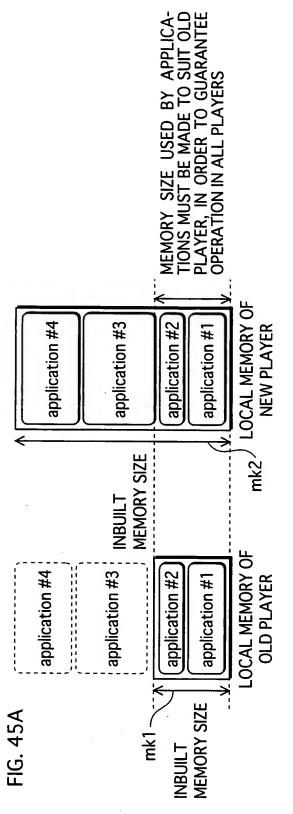


FIG. 45B title #1 DATA MANAGEMENT TABLE

TITLE NUMBER	application ID	READ ATTRIBUTE READ PRIORITY LEVEL	READ PRIORITY LEVEL
title #1	application #1	Preload	mandatory
title #1	application #2	Preload	mandatory
title #1	application #3	Preload	optional
title #1	application #4	Preload	optional

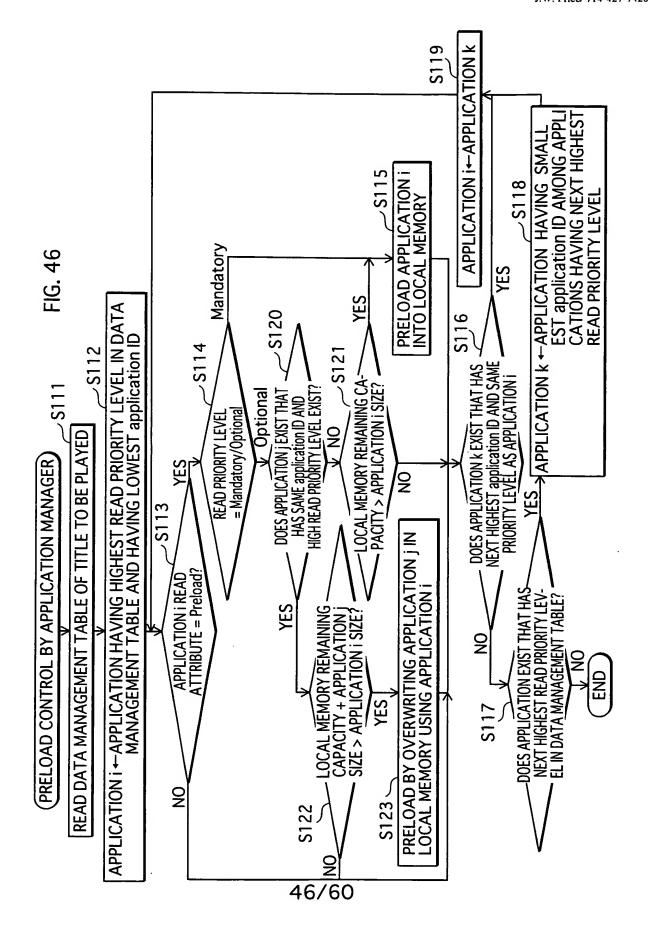
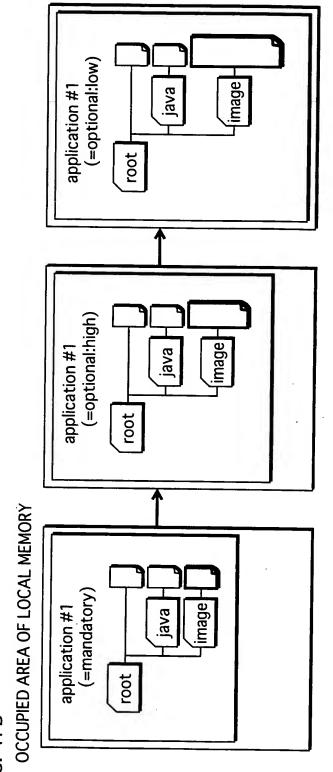


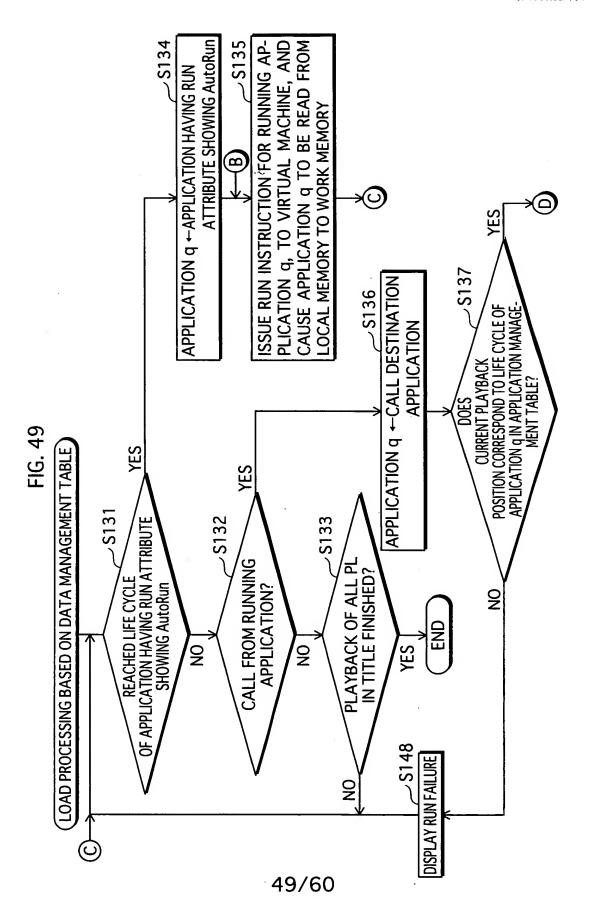
FIG. 47A title #1 DATA MANAGEMENT TABLE

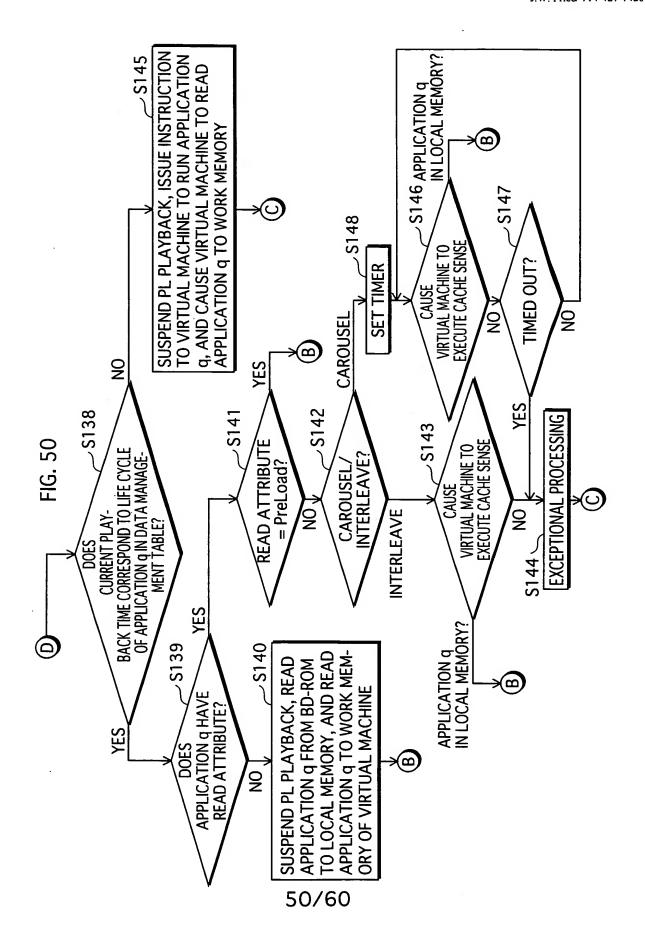
LIFE CYCLE	application ID	READ ATTRIBUTE	READ PRIORITY
title #1	application #1	Preload	mandatory
title #1	application #1	Preload	optional:high
title #1	application #1	Preload	optional:low

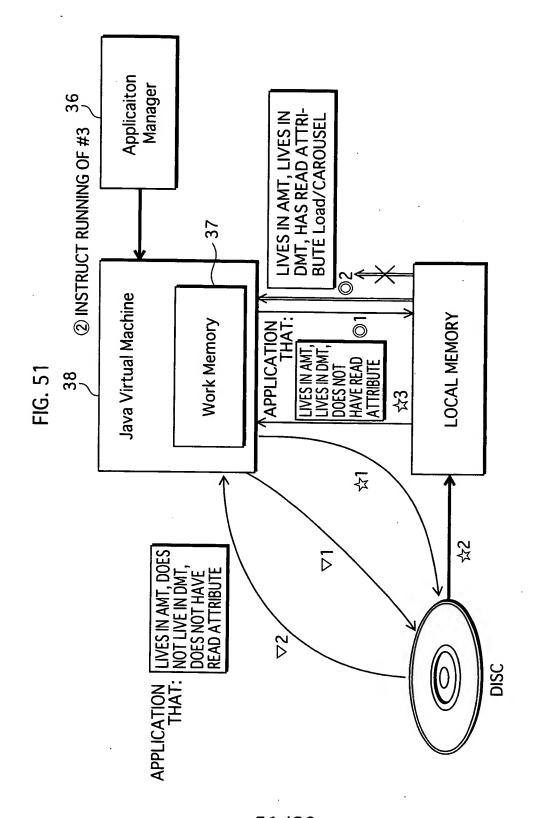
FIG. 47B



					AXIS				VIC							
READ PRIORITY LEVEL	mandatory	mandatory	mandatory	optional	-			3(Load)								
READ ATTRIBUTE	Preload	Load	Load	Preload	chapter #4 chapt	reload)		application #	tacho ## whent	Cliapter #4 Cliapte	reload)				reload)	
application ID	application #1	application #2	application #3	application #3	chapter #2 chapter #3	application #1(Pi		on #2(Load)	C# rotache C# retache	Chapter #2 Chapter #3	application #1(P		on #2(Load)		application #3(P	
LIFE CYCLE	title #1	title #1:chapter #1-#2	title #1:chapter #4-#5	title #1	chapter #1	10 775	ORY SIZE OF ERIS SMALL		- T	cnapter #1			. ш			
					FIG. 48B					FIG. 48C			MEMC PLAY			
		IFE CYCLE application ID application #1	E CYCLE application ID application #1 hapter #1-#2 application #2	E CYCLE application ID application #1 hapter #1-#2 application #2 hapter #4-#5 application #3	refecycle application ID application #1 chapter #1-#2 application #2 chapter #4-#5 application #3 application #3	title #1  title #1:chapter #1-#2 application #2  title #1:chapter #4-#5 application #3  title #1  chapter #1 chapter #3 chapter #4 c	title #1 application #1 Preload mandate title #1:chapter #1-#2 application #3 Load mandate title #1:chapter #4-#5 application #3 Load mandate title #1 chapter #4-#5 application #3 Preload optional mandate title #1 chapter #1 chapter #2 chapter #3 chapter #5 application #3 Preload optional application #3 Preload optional mandate title #1 chapter #1 chapter #2 chapter #3 chapter #5	title #1  LIFE CYCLE application ID READ ATTRIBUTE READ PRIOR  title #1:chapter #1-#2 application #2  title #1:chapter #4-#5 application #3  Load mandat  title #1:chapter #4-#5 application #3  Load mandat  title #1  Chapter #1 chapter #2 chapter #3 chapter #5  PLAYER IS SMALL  application #1 (Preload)	title #1 application #1 Preload mandate title #1:chapter #1-#2 application #2 Load mandate title #1:chapter #4-#5 application #3 Load mandate title #1:chapter #4-#5 application #3 Preload optional application #3 chapter #4 chapter #5 APPRIORY SIZE OF application #2 (Load) application #2 (Load mandate	title #1 application #1 Preload mandate title #1:chapter #1-#2 application #3 Load mandate title #1:chapter #4-#5 application #3 Load mandate title #1  FIG. 48B chapter #1 chapter #2 chapter #3 chapter #5  PLAYER IS SMALL application #2 (Load) application #3 (Load) application #2 (Load) application #2 (Load) application #2 (Load) application #3 (Load)	title #1: chapter #1-#2 application #1 Preload mandate title #1: chapter #4-#5 application #3 Load mandate title #1: chapter #4-#5 application #3 Load mandate title #1: chapter #4-#5 application #3 Preload optional mandate application #3 chapter #5 Preload optional application #1 (Preload)  FIG. 48B chapter #1 chapter #2 chapter #3 chapter #5 application #2 (Load)  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5 application #3 (Load)	title #1  LIFE CYCLE application #1 Preload mandate title #1:chapter #1-#2 application #3 Load mandate title #1:chapter #4-#5 application #3 Load mandate title #1:chapter #4-#5 application #3 Preload potional mandate title #1  FIG. 48B chapter #1 chapter #2 chapter #3 chapter #5  PLAYER IS SMALL application #2(Load)  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #4 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5	title #1 application #1 Preload mandattitle #1:chapter #1-#2 application #2 Load mandattitle #1:chapter #4-#5 application #3 Load mandattitle #1:chapter #4-#5 application #3 Preload optionaltitle #1  FIG. 48B chapter #1 chapter #2 chapter #3 chapter #5  PLAYER IS SMALL application #1 (Preload)  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5	title #1  LIFE CYCLE application #1  title #1  title #1:chapter #1-#2 application #2  Load mandat  title #1:chapter #4-#5 application #3  Load mandat  title #1:chapter #4-#5 application #3  Load mandat  application #3  Load mandat  mandat  chapter #1 chapter #2 chapter #3 chapter #5  PLAYER IS SMALL application #2(Load)  FIG. 48C  Chapter #1 chapter #2 chapter #3 chapter #4 chapter #5  FIG. 48C  Chapter #1 chapter #2 chapter #3 chapter #5  application #2(Load)  AEMORY SIZE OF application #1(Preload)  MEMORY SIZE OF application #2(Load)  APAYER IS LARGE application #2(Load)	LIFE CYCLE application #1 READ ATTRIBUTE READ PRIOR title #1:chapter #1-#2 application #3 Load mandat title #1:chapter #4-#5 application #3 Load mandat title #1:chapter #4-#5 application #3 Preload mandat title #1:chapter #4 application #3 Preload optional application #3 chapter #5 PLAYER IS SMALL application #2(Load)  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #4 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5  PLAYER IS LARGE application #2(Load)	LIFE CYCLE application ID READ ATTRIBUTE READ PRIOR title #1 chapter #1-#2 application #2 Load mandat title #1:chapter #4-#5 application #3 Load mandat title #1:chapter #4-#5 application #3 Load mandat title #1 chapter #4 chapter #5 Application #1 (Preload)  MEMORY SIZE OF PLAYER IS SMALL application #1 (Preload)  FIG. 48C chapter #1 chapter #2 chapter #3 chapter #5 application #1 (Preload)  MEMORY SIZE OF application #2 (Load)  MEMORY SIZE OF application #2 (Load)







## FIG. 52A

ZZZZZ. BD-J

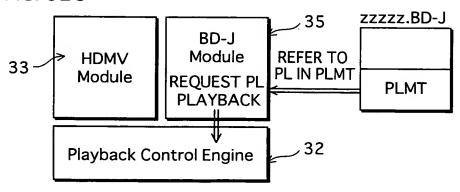
resume_intention_flag
menu_Call_Mask
title_search_mask
Application
Management
Table(AMT)
Data
Management
Table(DMT)
PlayList
Management
Table(PLMT)

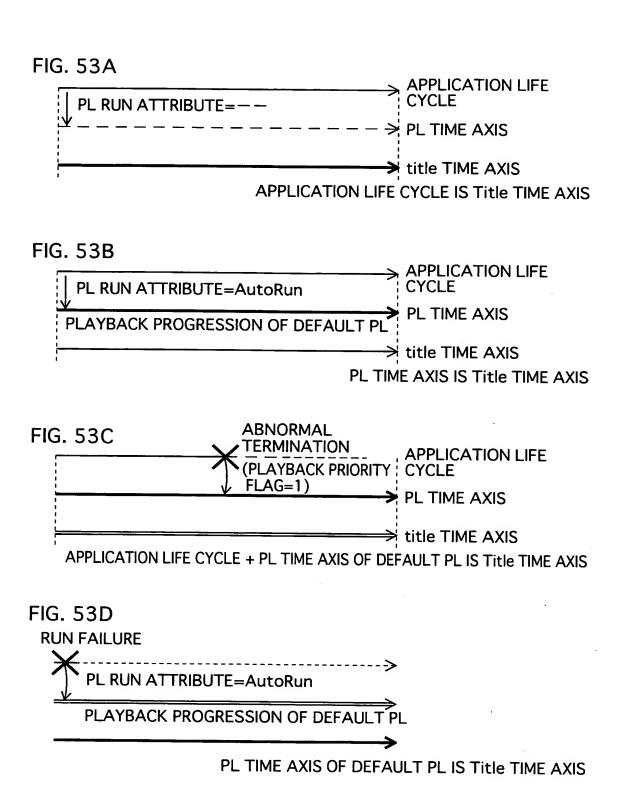
## FIG. 52B

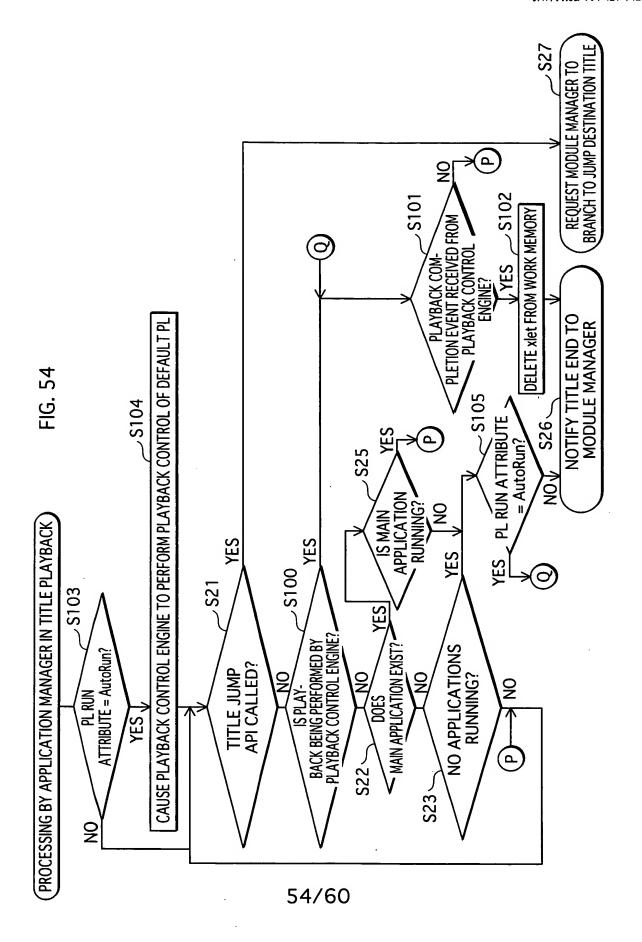
## PL MANAGEMENT TABLE

PLAYLIST ID	PLAYBACK ATTRIBUTE
	Auto Play

FIG. 52C







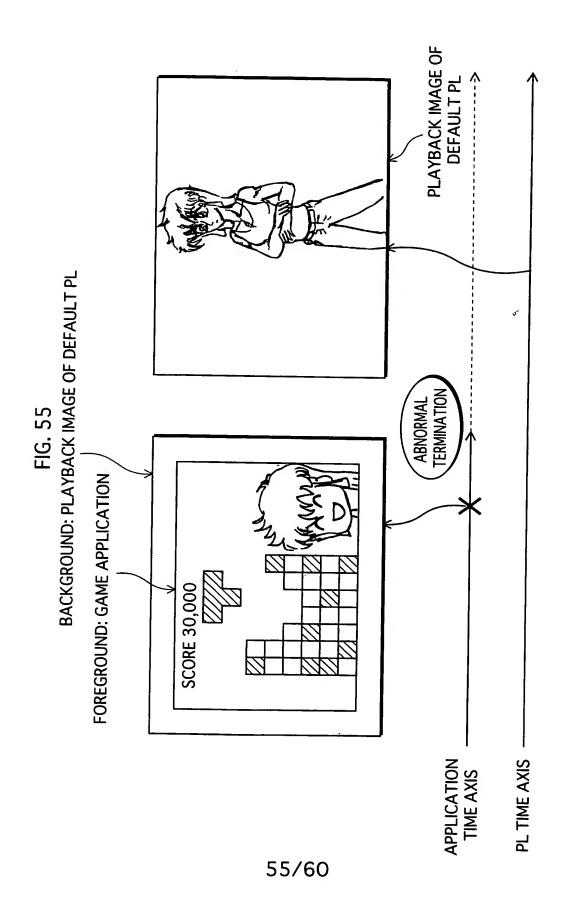


FIG. 56A

APPLICATION AND DATA MANAGEMENT TABLE

LIFE CYCLE	application ID	RUN ATTRIBUTE	RUN ATTRIBUTE READ PRIORITY LEVEL
title #1	application #1	AutoRun	
title #1:chapter #1-#3	application #2	Ready	
title #1	application #3		
title #1:chapter #2-#4	application #4	Ready	

RUN ATTRIBUTE + READ ATTRIBUTE

FIG. 56B

RUN ATTRIBUTE	PRELOAD BEFORE AV STREAM PLAYBACK	AUTO-RUN /CALL RUN	LOAD TO LOCAL MEMORY	LIVES /DOES NOT LIVE
AutoRun	0	AUTO	NO	LIVES
AutoRun	×	AUTO	YES	LIVES
READY	0	CALL	ON	LIVES
READY	×	CALL	YES	LIVES
NOT SPECIFIED	×	CALL	ON	LIVES

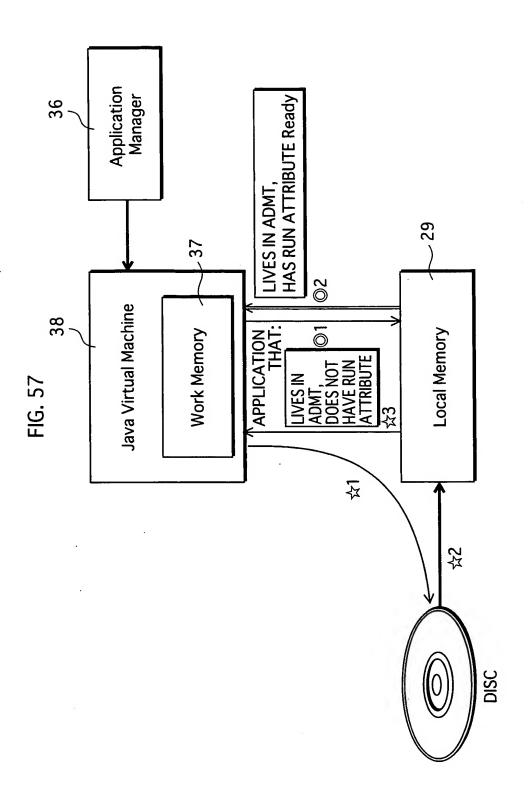


FIG. 58A DATA MANAGEMENT TABLE

LIFE CYCLE	application ID	READ ATTRIBUTE READ PRIORITY LEVEL	READ PRIORITY LEVEL
title #1	application #1	Preload	mandatory
title #1	application #2	Preload	option, 255
title #1	application #3	Preload	option, 128

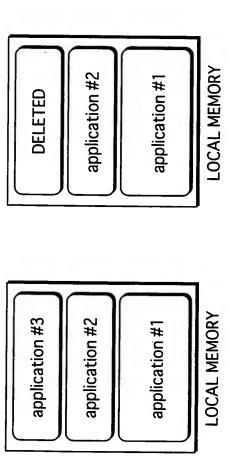
IF FREE CAPACITY OF MEMORY IS INSUFFICIENT, READ ONLY PART OF Option DATA LOCAL MEMORY application #3 application #2 application #1 MINIMUM MEMORY SIZE OF PLAYER INBUILT MEMORY SIZE OF PLAYER application #3 **LOCAL MEMORY** application #2 application #1

FIG. 58B

FIG. 59A DATA MANAGEMENT TABLE

LIFE CYCLE	application ID	LOAD ATTRIBUTE	LOAD ATTRIBUTE READ PRIORITY LEVEL GROUP ATTRIBUTE	GROUP ATTRIBUTE
title #1	application #1		mandatory	
title #1	application #2		optional	group #1
title #1	application #3		optional	group #1

FIG. 59B



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